



Gamma correction nonlinearity

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H Farid, C MIT - Image Processing, IEEE Transactions on, 2001 - ieeexplore.ieee.org
... since **gamma correction** is a point-wise **non-linearity** and the ... Virtually any **nonlinearity**

will affect these correlations. ... FARID: BLIND INVERSE **GAMMA CORRECTION** ...
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'Gamma'and its Disguises: The Nonlinear Mappings of Intensity in Perception, CRTs, Film, and Video - group of 5 »

CA Poynton - SMPTE Journal, 1993 - poynton.ca
... and in television sets are inherently **nonlinear** devices: the ... corrects for intensity **nonlinearity** at the ... If **gamma correction** were not already necessary for ...
Cited by 40 - Related Articles - View as HTML - Web Search - BL Direct

Digital gamma correction system for low, medium and high intensity video signals, with linear and ... - group of 2 »

DJ Hwung, JC Wang, DS Su - US Patent 5,473,373, 1995 - Google Patents
... The combined effect of **gamma correction** and **CRT non-linearity** results in a linearized system, as indicated in HG. 2C, and in Equation (3), as follows: ...
Cited by 18 - Related Articles - Web Search

Gamma correction circuit and method thereof

US Patent 5,175,621, 1992 - Google Patents
... showing an embodiment of a **gamma correction** circuit according ... the relationship between the **gamma** coefficient y ... block diagram showing a **nonlinear** quantization ...
Cited by 14 - Related Articles - Web Search

Gamma correction circuit using analog multiplier - group of 2 »

SY Yoon - US Patent 5,933,199, 1999 - Google Patents
... is D VQ ' which is at a **nonlinear** portion of ... there is provided a **gamma correction** circuit for making linear the **nonlinearity** electrooptic characteristics ...
Cited by 14 - Related Articles - Web Search

Gamma correction circuit, a liquid crystal driver, a method of displaying image, and a liquid ... - group of 3 »

K Tanaka, M Oshiro, T Onodera, K Kishida, M ... - US Patent 5,764,216, 1998 - Google Patents
... second **nonlinear**, that is, the characteristic curve has moderate ... the principle **gamma correction** circuit (a first **gamma** cor- ^ ...
Cited by 17 - Related Articles - Web Search

Dynamic gamma correction circuit for use in image projectors - group of 3 »

JG Hagerman - US Patent 5,461,430, 1995 - Google Patents
... that implements a **nonlinear** transfer function (gain) that provides for **gamma correction** of **nonlinear** image projectors. The **nonlinearity** of the transferfunction ...
Cited by 10 - Related Articles - Web Search

Frequently Asked Questions about Gamma - group of 122 »

C Poynton - rfp://ftp.inforamp.net/pub/users/poynton/doc/coiour/ ... - dai.ed.ac.uk
... to intensity is effectively the inverse of a CRT's **nonlinearity**. ... 6. What is **gamma correction**? ... linear-light intensity is transformed to a **nonlinear** video signal ...

Cited by 22 - Related Articles - Cached - Web Search

Brightness control system for CRT video display - group of 2 »

JS Prince, HL Herz, EP Coleman Jr - US Patent 4,589,022, 1986 - Google Patents
... logarithms. The **gamma correction** amplifier is of the **nonlinear** type and drives a video driver amplifier to drive the CRT cathode. The ...

Cited by 16 - Related Articles - Web Search

Gamma correction of digital video data by calculating linearly interpolated gamma correction values - group of 2 »

MA Kutner - US Patent 4,786,968, 1988 - Google Patents
... 2. Background Art d=xx'=x- x y . "Gamma Correction" is the **nonlinear** expansion or compression of video signals. This **correction** is often 15 ...

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